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PATENT, TRADEMARK COPYRIGHT AND RELATED INTELLECTUAL PROPERTY LAW

PATENT AGENT STEVEN J. SOLOMON

February 27, 2002

CENTRICATE

MAR 1 2 2002

OF CORRECTION

Commissioner for Patents Washington, D.C. 20231

Re: U.S. Patent No. 6,287,704 Issued September 11, 2001

Title: CHROMIUM (VI)-FREE CONVERSION LAYER AND METHOD FOR

PRODUCING IT

Inventors:

Patricia Preikschat, et al.

Our Docket: 31

31716

Sir:

A Certificate of Correction under 35 U.S.C. 254 is hereby requested to correct Patent Office printing errors in the above-identified patent. Enclosed herewith is a proposed Certificate of Correction (Form No. PTO-1050) for consideration.

It is requested that the Certificate of Correction be completed and mailed at an early date to the undersigned attorney of record.

Respectfully submitted,

By:

John P. Murtaugh, Reg. No. 34226

JPM/me

Enclosures: Form PTO-1050 in duplicate

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date indicated below.

John P. Murtaugh

Name of Attorney for Applicant(s)

Date

Signature of Attorney

PATENT NO

6,287,704

Page 1 of 4

DATED

September 11, 2001

INVENTOR(S):

Patricia Preikschat, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Cover Page, Section (54), delete "CHROMATE-FREE CONVERSION LAYER AND PROCESS FOR PRODUCING THE SAME" and insert therefore --CHROMIUM(VI)-FREE CONVERSION LAYER AND METHOD FOR PRODUCING IT-.

On the Cover Page, Section (30), delete "196 15 664" and insert therefor -196 15 664.5--.

On the Cover Page, Section (56) (Other Publications), second reference, line 2, after "London, GB;" insert -Class E31,-.

Column 1, delete lines 1, 2 & 3 and insert therefor -CHROMIUM(VI)-FREE CONVERSION LAYER AND METHOD FOR PRODUCING IT-.

Column 2, line 22, delete "1.5. μ m" and insert therefor –1.5 μ m–.

Column 3, line 2, delete "protection>100" and insert therefor –protection > 100–.

Column 3, line 58, after "FIG. 4" insert -,-.

Column 4, line 57, delete "layer>1%" and insert therefor –layer > 1%–.

MAILING ADDRESS OF SENDER:

John P. Murtaugh Pearne & Gordon LLP 526 Superior Ave. East, Suite 1200 Cleveland, Ohio 44114-1484

6,287,704 PATENT NO. ___

No. of additional copies

PATENT NO

6,287,704

Page 2 of 4

DATED

September 11, 2001

INVENTOR(S):

Patricia Preikschat, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6, line 61, delete "chromium (III)" and insert therefor –chromium(III)--.

Column 7, line18, before "Chromium (III)" begin a new paragraph.

Column 7, line 51, delete "CrCl₃.6H₂O" and insert therefor -CrCl₃ • 6 H₂O-.

Column 8, line 42, delete " K_1 " and insert therefor $-k_1$ -.

Column 8, line 48, delete "Zn²+ xCr^(III) + yH₂O \rightarrow ZnCr_xO_y + 2y H⁺" and insert therefor –Zn²+ xCr^(III) + yH₂O \rightarrow ZnCr_xO_y + 2y H⁺-.

Column 8, line 51, delete "H+, Cr(III)" and insert therefor -H+, Cr(III)-.

Column 8, line 54, delete "1/(1+p₁•m_{ZnCr0})²" and insert therefor $-1/(1+p_1 \cdot m_{Z_DC_{TO}})^2$ -.

Column 8, line 59, delete "k₁ x c_H + / $a + p_1$ x m_{ZnCrO})² -" and insert therefor $-k_1$ $xc_H + / (1 + p_1 \times m_{ZnCrO})^2 -$

Column 8, line 60, before " k_2 " insert ---.

Column 8, line 60, after "x $tanh(p_2 xm_{ZnCrO})$ " delete -+-.

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PATENT NO. ___6,287,704

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PATENT NO

6,287,704

Page 3 of 4

DATED

September 11, 2001

INVENTOR(S):

Patricia Preikschat, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, line 61, before " k_T " insert -+-.

Column 8, line 62, delete "a" and insert therefor –(1–.

Column 8, line 62, after " $p_1 \times m_{ZnCrO}$ " delete – + –.

Column 8, line 63, before " $2yk_2$ " insert -+-.

Column 8, line 63, delete " $x 3_{H+}$ " and insert therefor $-xc_H + -$.

Column 8, line 63, after "x $tanh(p_2 \times m_{ZnCrO})$ " delete -+-.

Column 9, line 2, before " $k_{\rm T}$ " insert -+-.

Column 9, line 4, after "x $tanh(p_2 \times m_{ZnCrO})$ " delete -+-.

Column 9, line 6, before " $k_{\rm T}$ " insert -+-.

Column 9, line 6, delete second occurrence of "- c_{Cr} (III)"

Column 9, line 12, delete "tan $h(p_2 \cdot m_{ZnCrO})$ " and insert therefor $-\tanh(p_2 \cdot m_{ZnCrO})$ —.

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PATENT NO

6,287,704

Page 4 of 4

DATED

September 11, 2001

INVENTOR(S):

Patricia Preikschat, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9, line 13, after "reaction II" insert -,-.

Column 9, line 14, delete "tan h" and insert therefor –tanh–.

Column 9, line 29, delete "kj" and insert therefor -kj.

Column10, line 60, delete "CrCl₃.6" and insert therefor -CrCl₃.6 -.

Column 11, line 12, delete "CrCl₃.6" and insert therefor -CrCl₃.6-.

Column 12, line 2, delete "60 s." and insert therefor -60s.-.

Column 12, line 17, delete "60 s." and insert therefor -60s.-.

Column 12, line 37-38, delete "chromium (VI)" and insert therefor -chromium(VI)-.

Column 13, line 12, delete "0.00" and insert therefor ".00".

Column 15, line 28, after "O" insert -,-.

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PATENT NO.

شاها كالربد

: 6,287,704 B1

DATED

: September 11, 2001

INVENTOR(S) : Patricia Preikschat et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9,

Lines 2 and 6, before " k_T " insert -- + --.

Line 4, after "x $tanh(p_2 \times m_{ZnCrO})$ " delete "+".

Line 6, delete second occurrence of "-c_{Cr} (III)"

Line 12, delete "tan h ($p_2 \cdot m_{ZnCrO}$)" and insert therefor -- tanh($p_2 \cdot m_{ZnCrO}$) --.

Line 13, after "reaction II" insert --, --.

Line 14, delete "tan h" and insert therefor -- tanh --.

Line 29, delete "kj" and insert therefor -- kj --.

Column 10,

Line 60, delete "CrCl₃.6" and insert therefor -- CrCl₃ • 6 --.

Column 11,

Line 12, delete "CrCl₃.6" and insert therefor -- CrCl₃ • 6 --.

Lines 2 and 17, delete "60 s." and insert therefor -- 60s. --.

Lines 37-38, delete "chromium (VI)" and insert therefor -- chromium(VI) --.

Column 13,

Line 12, delete "0.00" and insert therefor -- .00 --.

Column 15,

Line 28, after "O" insert --, --.

Signed and Sealed this

Page 2 of 2

Fifteenth Day of April, 2003

JAMES E. ROGAN Director of the United States Patent and Trademark Office

Page 1 of 2

PATENT NO.

: 6,287,704 B1

ĎATED

: September 11, 2001

INVENTOR(S) : Patricia Preikschat et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, Item [54] and Column 1, lines 1-3,

Delete "CHROMATE-FREE CONVERSION LAYER AND PROCESS FOR PRODUCING THE SAME" and insert therefore -- CHROMIUM (VI)-FREE CONVERSION LAYER AND METHOD FOR PRODUCING IT --.

Item [56], OTHER PUBLICATIONS, second reference, after "London, GB;" insert -- Class E31, --.

Column 2,

Line 22, delete "1.5. μ m" and insert therefor -- 1.5 μ m --

Column 3,

Line 2, delete "protection>100" and insert therefor -- protection > 100 --. Line 58, after "FIG. 4" insert --, --.

Line 57, delete "layer>1%" and insert therefor -- layer > 1% --.

Column 6.

Line 61, delete "chromium (III)" and insert therefor -- chromium(III) --.

Column 7,

Line 18, before "Chromium (III)" begin a new paragraph.

Line 51, delete "CrCl₃.6H₂O" and insert therefor -- CrCl₃ • 6 H₂O --.

Column 8,

Line 42, delete " K_1 " and insert therefor -- k_1 --.

Line 48, delete " $Zn^{2+} + xCr^{(III)} + yH_2O \rightarrow ZnCr_xO_v + 2yH^+$ " and insert therefor -- Zn^{2+} $+ xCr^{(III)} + yH_2O \rightarrow ZnCr_xO_y + 2yH^+ --.$

Line 51, delete "H⁺, Cr(III)" and insert therefor -- H⁺, Cr(III) --.

Line 54, delete " $1/(1+p_1 \cdot m_{ZnCrO})^2$ " and insert therefor -- $1/(1+p_1 \cdot m_{ZnCrO})^2$ --.

Line 59, delete " $k_1 \times c_H + /a + p_1 \times m_{ZnCrO}$ " and insert therefor -- $k_1 \times c_H + /(1 + p_1 \times 1)$ $m_{ZnCrO})^2$ --.

Line 60, before " k_2 " insert -- --.

Lines 60, after "x $tanh(p_2 \times m_{ZnCrO})$ " delete "+".

Line 61, before " $k_{\rm T}$ " insert -- + --.

Line 62, delete "a" and insert therefor -- (1 --.

Line 62, after " $p_1 \times m_{ZnCrO}$ " delete "+".

Line 63, before " $2yk_2$ " insert -- + --.

Line 63, delete " $x 3_{H+}$ " and insert therefor -- $xc_H + --$.

Line 63, after "x $tanh(p_2 \times m_{ZnCrO})$ " delete "+".